



"CSS Background Properties"

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Background-Color Property

1) Background-Color Property

Sets the background color of an element.

You can use color names, RGB, HEX, HSL, etc.

Syntax

```
background-color: value;
```

Output

This is a box with background color



Input

```
<!DOCTYPE html>
<html>
<head>
<style>
  div {
    background-color: lightgreen;
  }
</style>
</head>
<body>

<div>This is a box with background color</div>

</body>
</html>
```

Background-Image Property

Sets an image as the background of an element (using URL).

Syntax

```
background-image: url("image.jpg");
```

Image covers the whole area (may crop).

Syntax

```
background-size: cover;
```



Output



Input

```
<!DOCTYPE html>
<html>
<head>
<style>
.box {
  width: 300px;
  height: 200px;
  background-image: url("https://picsum.photos/800/500");
  background-size: cover;
}
</style>
</head>
<body>

<div class="box"></div>

</body>
</html>
```

Background-Repeat Property

Controls how the background image repeats.

Values are:-

repeat (default):

Repeats in both directions.

repeat-x:

Repeats horizontally.

repeat-y:

Repeats vertically.

no-repeat:

Shows only once.

round:

Stretches/shrinks image to fit.

space:

Distributes extra space evenly.

Syntax

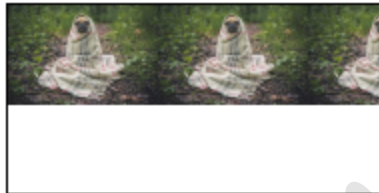
```
background-repeat: value;
```

OUTPUT

repeat:



repeat-x:



repeat-y:



no-repeat:



round:



space:



INPUT

```
<!DOCTYPE html>
<html>
<head>
<style>
.box {
  width: 300px;
  height: 150px;
  border: 2px solid black;
  background-image: url("https://picsum.photos/id/1025/600/400");
  background-size: 120px; /* small size so repeat is visible */
}
.repeat { background-repeat: repeat; }      /* repeats both ways */
.repeat-x { background-repeat: repeat-x; }   /* repeats horizontally */
.repeat-y { background-repeat: repeat-y; }   /* repeats vertically */
.no-repeat { background-repeat: no-repeat; } /* image shows once */
.round { background-repeat: round; }         /* stretches evenly */
.space { background-repeat: space; }         /* adds equal space */

</style>
</head>
<body>
<h1>repeat:</h1>
<div class="box repeat"></div>

<h1>repeat-x:</h1>
<div class="box repeat-x"></div>

<h1>repeat-y:</h1>
<div class="box repeat-y"></div>

<h1>no-repeat:</h1>
<div class="box no-repeat"></div>

<h1>round:</h1>
<div class="box round"></div>

<h1>space:</h1>
<div class="box space"></div>
</body>
</html>
```

BACKGROUND IMAGE BLUR

Blurs the content of an element

Syntax

```
filter: blur(value);
```

Output



Input

```
<!DOCTYPE html>
<html>
<head>
<style>
.box {
  width: 300px;
  height: 200px;
  background-image: url("https://picsum.photos/id/1025/600/400");
  background-size: cover;
  filter: blur(5px); /* This will blur the background image */
}
h1{
filter:blur(2px);/* This will blur the h1 tag text*/
}
</style>
</head>
<body>

<div class="box"></div>
<h1>hi</h1>

</body>
</html>
```

Background-Position Property

Sets the starting position of a background image.

Values are:-

top:

Aligns the image to the top.

center:

Centers the image.

bottom:

Aligns the image to the bottom.

Percentage:

First value = horizontal position.

Second value = vertical position.

Both depend on the element's size.

Example: 50% 50% → image perfectly centered.

Syntax

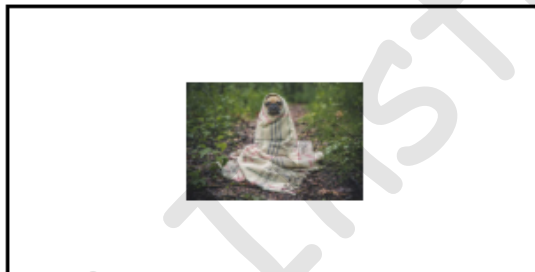
```
background-position: value;
```

OUTPUT

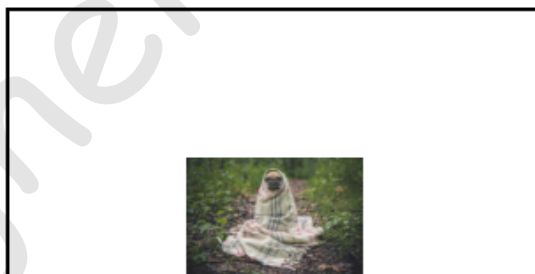
top:



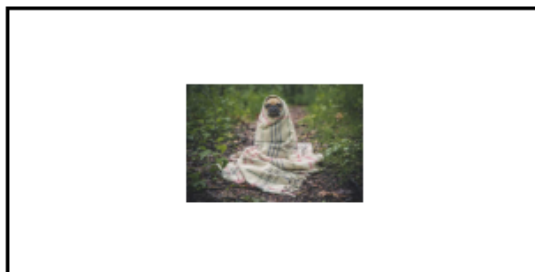
center:



bottom:



50% 50% (horizontal + vertical percentage):



INPUT

```
<!DOCTYPE html>
<html>
<head>
<style>
.box {
  width: 300px;
  height: 150px;
  border: 2px solid black;
  margin: 10px;
  background-image: url("https://picsum.photos/id/1025/600/400");
  background-size: 100px;
  background-repeat: no-repeat;
}
.top { background-position: top; }
.center { background-position: center; }
.bottom { background-position: bottom; }
.percentage { background-position: 50% 50%; } /* perfectly centered */
</style>
</head>
<body>

<p>top:</p>
<div class="box top"></div>

<p>center:</p>
<div class="box center"></div>

<p>bottom:</p>
<div class="box bottom"></div>

<p>50% 50% (horizontal + vertical percentage):</p>
<div class="box percentage"></div>

</body>
</html>
```

Background-Attachment Property

Controls whether the background moves on scroll.

Values:

1. **scroll**: Moves with page
2. **fixed**: Stays fixed
3. **local**: Scrolls inside element

Syntax

```
background-attachment: value;
```

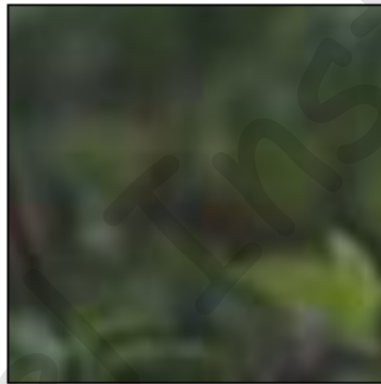


OUTPUT

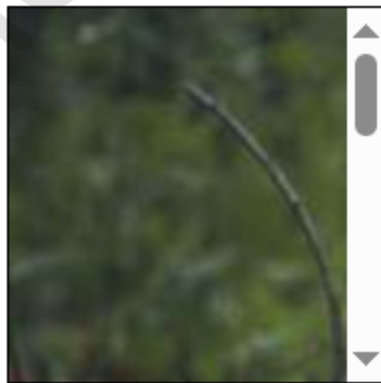
scroll: Moves with page



fixed: Stays fixed



local: Scrolls inside element



INPUT

```
<!DOCTYPE html>
<html>
<head>
<style>
.box {
  width: 300px;
  height: 150px;
  border: 2px solid black;
  margin: 20px 0;
  background-image: url("https://picsum.photos/id/1025/600/400");
  background-size: cover;
}

/* background-attachment values */
.scroll { background-attachment: scroll; height: 300px;overflow: auto; } /* page scroll effect */
.fixed { background-attachment: fixed; height: 300px; } /* background fixed */
.local {background-attachment: local;height: 300px; overflow: auto; }
</style>
</head>
<body>

<p>scroll: Moves with page</p>
<div class="box scroll">
<p style="height:1000px"></p>
</div>

<p>fixed: Stays fixed</p>
<div class="box fixed"></div>

<p>local: Scrolls inside element</p>
<div class="box local">
  <p style="height:1000px"></p>
</div>

</body>
</html>
```